

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently amended) A composite film comprising:
a polymer composite layer having two sides with a plurality
5 of tiny gaps, each of the gaps comprising two edges
in contact with each other to form a closed gap when
a pressure difference between the two sides of the
composite film is approximately zero; and
a nonstick sealing layer attached to one side of the
10 polymer composite layer to seal the gaps and make the
gaps become air impermeable when the pressure
difference is approximately zero;
wherein when the pressure difference between the two
sides of the composite film increases, each of the gaps
15 are is enlarged by the air pressure exerted on one side
of the composite film and become air permeable, and ~~restore~~
restores again while the pressure difference is removed.

Claim 2 (Original) The composite film of claim 1 wherein
20 the gaps are formed using an impression process.

Claim 3 (Original) The composite film of claim 2 wherein
the impression process is performed after the sealing
layer is formed on one side of the polymer layer.
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Claim 4 (Previously presented) The composite film of claim
1 wherein the polymer layer contains one or more layers
each made by one of the following materials: acrylic resins,
polyester, polyethylene (PE), polypropylene (PP),
30 copolymer of PE and PP, ethylene-styrene copolymer (ES),
cyclo olefin, polyethylene terephthalate (PET), polyvinyl
alcohol (PVA), ethylene-vinyl acetate (EVA),

ethylene/methacrylic acid (E/MAA) ionomer, polyethylene naphthalate (PEN), poly ether ether ketone (PEEK), polycarbonate (PC), polysulfone, polyimide (PI), polyacrylonitrile (PAN), styrene acrylonitrile (SAN),
5 polyurethane (PU), synthetic papers, glassine papers, or polyolefin coated paper.

Claim 5 (Original) The composite film of claim 1 wherein the sealing layer is made from fatty acids or their
10 derivatives, starch, amyloid materials or their derivatives, lipids, oleaginous materials, wetting agents, or waxes.

Claim 6 (Original) The composite film of claim 5 wherein
15 the waxes are natural waxes or synthetic waxes.

Claim 7 (Original) The composite film of claim 1 wherein the gaps are evenly distributed or distributed within
20 selected areas of the polymer layer.

Claim 8 (Original) The composite film of claim 1 wherein the polymer layer or the sealing layer further comprises
25 an oxygen scavenger for preventing oxygen from permeating through the composite film.

Claim 9 (Original) The composite film of claim 1 further comprising another nonstick sealing layer attached to the
30 other side of the polymer layer for filling the gaps to prevent air permeation.

Claim 10 (Currently amended) A composite film comprising a first layer, and a second layer laminated on the first

layer, the composite film comprising a top face on the first layer and a bottom face on the second layer, the composite film being processed by virtue of an impression process, thereby forming a plurality of tiny gaps, each of the gaps comprising two edges in contact with each other to form a closed gap when a pressure difference between the two sides of the composite film is approximately zero wherein when the pressure difference between the two sides of the composite film increases, each of the gaps are is enlarged by the air pressure exerted on one side of the composite film and become air permeable, and ~~restores~~ restores again while the pressure difference is removed.

Claim 11 (Previously presented) The composite film of claim 10 wherein the composite film further comprises a sealing layer attached to one side of the composite film for filling the tiny gaps.

Claim 12 (Previously presented) The composite film of claim 10 wherein the first layer is made from one of the following materials: acrylic resins, polyester, polyethylene (PE), polypropylene (PP), copolymer of PE and PP, ethylene-styrene copolymer (ES), cyclo olefin, polyethylene terephthalate (PET), polyvinyl alcohol (PVA), ethylene-vinyl acetate (EVA), ethylene/methacrylic acid (E/MAA) ionomer, polyethylene naphthalate (PEN), poly ether ether ketone (PEEK), polycarbonate (PC), polysulfone, polyimide (PI), polyacrylonitrile (PAN), styrene acrylonitrile (SAN), or polyurethane (PU).

Claim 13 (Original) The composite film of claim 10 wherein the second layer material is composed of a material with

a higher melting point than that of the first layer.

Claim 14 (Previously presented) The composite film of claim
13 wherein the second layer is composed of a material
5 selected from a group comprising acrylic resins, polyester,
polyethylene (PE), polypropylene (PP), copolymer of PE and
PP, ethylene-styrene copolymer (ES), cyclo olefin,
polyethylene terephthalate (PET), polyvinyl alcohol (PVA),
ethylene-vinyl acetate (EVA), ethylene/methacrylic acid
10 (E/MAA) ionomer, polyethylene naphthalate (PEN), poly
ether ether ketone (PEEK), polycarbonate (PC),
polysulfone, polyimide (PI), polyacrylonitrile (PAN),
styrene acrylonitrile (SAN), polyurethane (PU), synthetic
papers, glassine papers, or polyolefin coated paper.

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Claim 15 (Original) The composite film of claim 10 further
comprising an oxygen scavenger for preventing oxygen from
permeating through the composite film.

20 Claim 16 (Previously presented) The composite film of claim
11 wherein the sealing layer is made from fatty acids or
their derivatives, starch, amyloid materials or their
derivatives, lipids, oleaginous materials, wetting agents,
or waxes.

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Claim 17 (Original) The composite film of claim 16 wherein
the waxes are natural waxes or synthetic waxes.

Claim 18 (Previously presented) The composite film of claim
30 10 wherein the gaps are distributed throughout the whole
area or distributed within selected areas of the composite
film.

Claims 19-43 (Canceled)